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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-095167

(43)Date of publication of application : 09.04.1999

(51)Int.Cl.

G02B 27/22
G02B 1/11
G02F 1/13
G03B 35/18
H04N 13/04
// G09G 5/36

(21)Application number : 09-254947

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(22)Date of filing : 19.09.1997

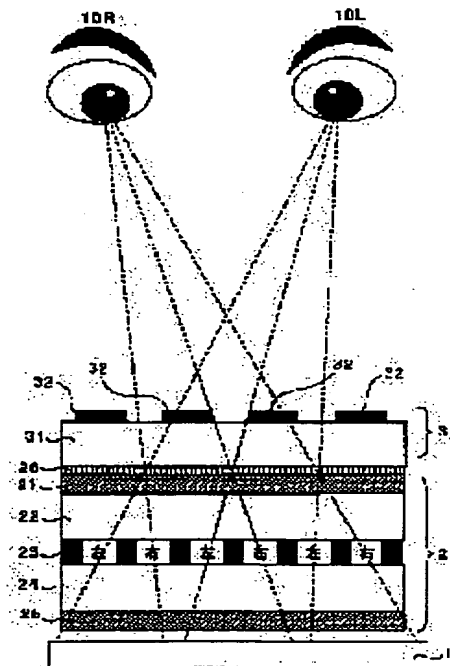
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(54) STEREOSCOPIC VIDEO DISPLAY DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a stereoscopic video display device without spectacles which prevents the chromatic patterns arising at the contact surfaces of a video display panel with an optical separating means.

SOLUTION: This stereoscopic video display device has the liquid crystal panel 2 which constitutes a display screen by first pixel groups and second pixel groups and a parallax barrier 3 which is arranged to come into contact with the liquid crystal panel 2 and separates the light of the first pixel groups and the light of second pixel groups to be displayed to the right and left. An antireflection coating 26 is applied on at least one surface of the contact surfaces of the parallax barrier 3 and the liquid crystal panel 2.



LEGAL STATUS

[Date of request for examination] 30.01.1998

[Date of sending the examiner's decision of rejection] 20.06.2000

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3192994

[Date of registration] 25.05.2001

[Number of appeal against examiner's decision of rejection] 2000-11257

[Date of requesting appeal against examiner's decision of rejection] 21.07.2000

[Date of extinction of right]

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**Japanese Laid-Open Patent Publication No.
95167/1999 (Tokukaihei 11-95167)**

A. Relevance of the Above-identified Document

The following is a partial English translation of exemplary portions of non-English language information that may be relevant to the issue of patentability of the claims of the present application.

[EMBODIMENTS OF THE INVENTION]

[0019]

Fig. 1 is a schematic view illustrating a structure of a stereoscopic image display of the first embodiment according to the present invention. The stereoscopic image display includes a liquid crystal panel 2 as an image display panel, and a parallax barrier, provided in contact with the liquid crystal panel 2 and serving as optical separating means, for separating a left eye image and a right eye image from each other.

[0020]

As in the conventional example described earlier, a parallax barrier 3 has stripe-patterned shielding thin films 32 formed on a substrate 31. The substrate 31 is made of glass, transparent resin, or the like. The parallax barrier 3 is disposed so that a glass surface or a stripe-patterned surface is in contact with the surface of

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the liquid crystal panel 2. In Fig. 1, the parallax barrier 3 is disposed so that the surface of the substrate 31 is in contact with the surface of the liquid crystal panel 2.

[0021]

In the liquid crystal panel 2, a liquid crystal layer 23 is provided between glass substrates 22 and 24. Further, an emergent light polarizer 21 is provided on the light emergent side of the glass substrate 22, and an incident light polarizer 25 is provided on the light incident side of the glass substrate 24. On the liquid crystal layer 23 of the liquid crystal panel 2, the right eye image and left eye image are alternately displayed line by line. The right eye image produced by the transmitted light from a backlight 1 is separated by the parallax barrier 3. This ensures that the left eye image and right eye image are viewed by a left eye 10L and a right eye 10R of the observer, respectively, and a stereoscopic image is perceived.

模式図である。

【図7】従来の別の立体映像表示装置の構成を示す模式図である。

【符号の説明】

1 バックライト

2 液晶パネル

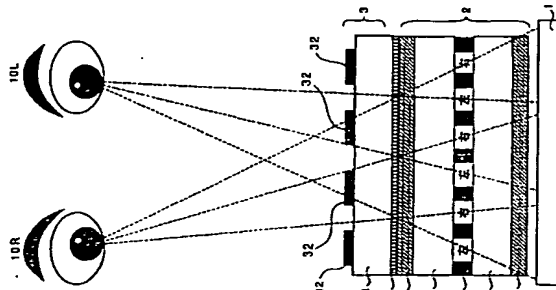
3 パララックスバリア

21、25 偏光板

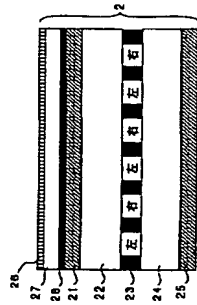
22、24 ガラス基板

26 反射防止コーティング

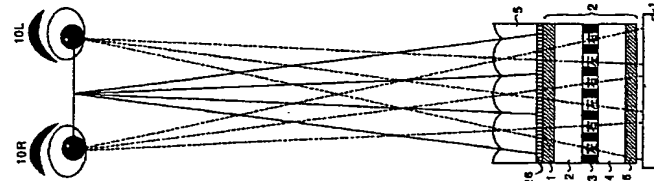
【図1】



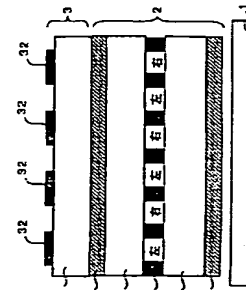
【図2】



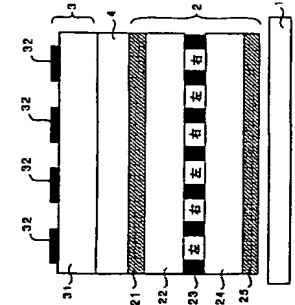
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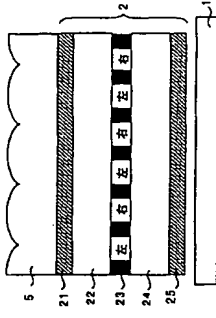
【図5】



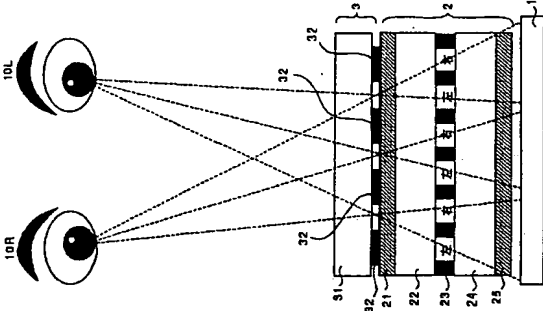
【図6】



【図7】



【図4】



フロントページの続き

(51)Int. Cl. 6

識別記号

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